

01464527 BLACKS CREEK AT CHESTERFIELD, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°06'34", long 74°38'30" referenced to North American Datum of 1983, Chesterfield Township, Burlington County, NJ, Hydrologic Unit 02040201, at bridge on Chesterfield-Georgetown Road, 0.4 mi south of Chesterfield, 2.2 mi north of Georgetown, and 2.4 mi upstream of Bacons Run.

DRAINAGE AREA.--8.91 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 2001 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Date	Discharge, in ft ³ /s
Nov 7, 2007	6.00
Feb 7, 2008	12.2
May 6, 2008	4.96
Aug 19, 2008	1.47

01464527 BLACKS CREEK AT CHESTERFIELD, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2001 to current year.

REMARKS.-- Cooperative Network Site Descriptor: Agricultural Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 20.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 3

[Remark codes: <, less than; E, estimated.]

Date	Time	Instantaneous discharge, ft ³ /s (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)
Nov 07...	1125	6.0	20	.202	.167	761	10.4	89	7.0	206	9.5	8.6	61
Feb 07...	1030	12	46	.167	.137	754	10.8	92	6.8	172	12.0	8.7	53
May 06...	1155	5.0	13	.151	.119	760	8.1	85	7.0	198	27.5	17.7	66
Aug 19...	1010	1.5	22	.275	.231	756	5.5	63	6.6	204	24.0	21.2	67

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 3

[Remark codes: <, less than; E, estimated.]

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO ₃ (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO ₂ (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Nov 07...	16.5	4.87	6.26	8.36	37	23.8	.31	11.5	19.0	E115	134	5	.31
Feb 07...	14.0	4.33	4.05	6.81	22	17.9	.21	9.9	21.4	E99	101	20	.28
May 06...	18.0	5.07	3.94	7.89	38	19.7	.36	9.2	19.9	E110	144	9	.44
Aug 19...	18.6	5.02	4.99	8.14	45	21.5	.37	9.2	13.2	109	127	5	.42

01464527 BLACKS CREEK AT CHESTERFIELD, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 3

[Remark codes: <, less than; E, estimated.]

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Boron, water, fltrd, µg/L (01020)
Nov													
07...	.048	.52	.08	.82	.90	E.004	.025	.120	.6	<.04	.6	4.0	30
Feb													
07...	.077	1.52	.18	1.8	2.0	E.005	E.008	.172	1.3	<.04	1.3	2.9	23
May													
06...	.128	.58	.12	1.0	1.1	E.004	.032	.122	1.0	<.04	1.0	3.7	29
Aug													
19...	.064	.29	.07	.71	.79	<.010	.008	.124	.6	<.04	.6	4.7	34